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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-5. (Canceled)

6. (New) A method for treating and/or preventing a gastrointestinal disorder; for treating and/or improving a gastrointestinal property of a COX-2 selective inhibitor; for decreasing the recurrence of an ulcer; for improving a gastroprotective property, an anti-Helicobacter pylori property or an antacid property of a proton pump inhibitor; or for improving a gastroprotective property of an H₂ receptor antagonist; in a patient in need thereof comprising administering to the patient a therapeutically effective amount of at least one compound of Formula II or a pharmaceutically acceptable salt thereof: wherein the compound of Formula (II) is:

wherein:

R³ is a hydroxyl, lower alkoxy, lower alkenoxy, di-lower-alkylamino-lower-alkoxy, acylamino-lower-alkoxy, acyloxy-lower-alkoxy, aryloxy, aryl-lower-alkoxy, substituted aryloxy or substituted aryl-lower-alkoxy, in which the substituent is methyl, halogen or methoxy; amino, lower alkylamino, di-lower-alkylamino, aryl-lower-alkylamino, hydroxy-lower-alkyl-amino, pyrrolidine, piperidine, morpholine, piperazine or amino-acid residues via peptide linkage;

R²⁰ and R²¹ are each independently a hydrogen, an alkyl having 1 to 6 carbon atoms, a substituted lower alkyl in which the substituent is a halogen, groups defined by R³ containing hydroxy, lower alkoxy, aryloxy, amino, lower alkylamino, acylamino, acylamino, arylamino, mercapto, lower alkylthio or arylthio;

R²² is hydrogen or lower alkyl;

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R²³ is hydrogen, lower alkyl, phenyl, methoxy phenyl, phenyl-lower alkyl, methoxyphenyl-lower alkyl, hydroxyphenyl-lower alkyl, hydroxy-lower alkyl, alkoxy-lower alkyl, amino-lower alkyl, acylamino-lower alkyl, mercapto-lower alkyl or lower alkylthio-lower alkyl;

R²⁴ is lower alkyl thiol, -SH, S-acyl compound of lower alkylthiol, preferably -S-acetyl, -S-propionyl, -S-butyryl, -S-isobutyryl, -S-capryl, -S-pivaloyl, -S-benzoyl;

and lower alkylthio-lower alkanoic acid and esters and amides thereof, and lower alkylthio-lower alkyl;

R²⁵ is hydrogen and lower alkyl groups in which R³ and R²⁴ are bonded together and form part of a thiolactone group, groups in which R³ and R²³ are bonded together in the form of an ester or amide, groups in which R²² and R²³ are bonded together in the form of an alkylene bridge with 2 to 4 carbon atoms, an alkylene bridge with 2 to 3 carbon atoms and a sulfur atom, an alkylene bridge with 3 to 4 carbon atoms, which contains a double bond or an alkylene bridge as above, which can be substituted by one or more hydroxy, lower alkoxy, lower alkyl or dilower alkyl groups; and

- m, n and o are each independently integers from 0 to 10.
- 7. (New) The method of claim 6, further comprising administering a pharmaceutically acceptable carrier.
- 8. (New) The method of claim 6, further comprising administering an NSAID, a COX-2 inhibitor, an H_2 receptor antagonist, a proton pump inhibitor, a vasoactive agent, a steroid, a β -agonist, an anticholinergic, a mast cell stabilizer, a PDE inhibitor, taxane, rapamycin, tranilast, or a combination of two or more thereof.
- 9. (New) The method of claim 6, wherein the compound of Formula (II) is N-nitrato-pivaloyl-S-(N-acetyl-glycyl)-L-cysteine ethyl ester (compound SPM 5186) or a pharmaceutically acceptable salt thereof; N-nitrato-pivaloyl-S-(N-acetyl-alanyl)-L-cysteine ethyl

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ester (compound SPM 5185) or a pharmaceutically acceptable salt thereof; N-nitrato-pivaloyl-S-(N-acetyl-leucyl)-L-cysteine ethyl ester; N-(2-nitratoacetyl)-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratoacetyl)-S-acetyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratoacetyl)-S-propionyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratoacetyl)-S-pivaloyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratoacetyl)-methionine methyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratopropionyl)-cysteine or a pharmaceutically acceptable salt thereof; N-(2-nitratopropionyl)-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratopropionyl)-methionine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratobutyryl)-cysteine or a pharmaceutically acceptable salt thereof; N-(2-nitratobutyryl)-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratobutyryl)-S-acetyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratobutyryl)-S-butyryl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratobutyryl)-methionine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratoisobutyryl)-cysteine or a pharmaceutically acceptable salt thereof; N-(2nitratoisobutyryl)-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2nitratoisobutyryl)-S-benzoyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratoisobutyryl)-S-acetyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratoisobutyryl)-S-pivaloyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratoisobutyryl)-methionine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3-nitratobutyryl)-cysteine or a pharmaceutically acceptable salt thereof; N-(3nitratobutyryl)-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3nitratobutyryl)-S-acetyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3nitratobutyryl)-S-propionyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3-nitratobutyryl)-methionine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3nitratobutyryl)-homocysteine thiolactone or a pharmaceutically acceptable salt thereof; N-(3nitratopivaloyl)-cysteine or a pharmaceutically acceptable salt thereof; N-(3-nitratopivaloyl)cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3-nitratopivaloyl)-cysteine ethyl ester-S-ethyl carbonate or a pharmaceutically acceptable salt thereof; N-(3-nitratopivaloyl)- Response and Amendment under 37 CFR § 1.111 US Application No. 10/760,672 Page 6 of 12

S-acetyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3-nitratopivaloyl)-S-propionyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3nitratopivaloyl)-S-butyryl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3-nitratopivaloyl)-S-isobutyryl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3-nitratopivaloyl)-S-pivaloyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3-nitratopivaloyl)-S-benzoyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3-nitratopivaloyl)-methionine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3-nitratopivaloyl)-methionine or a pharmaceutically acceptable salt thereof; N-(3-nitratopivaloyl)-homocysteine thiolactone or a pharmaceutically acceptable salt thereof; N-(2-nitratohexanoyl)-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(2-nitratohexanoyl)-S-propionyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3-nitratohexanoyl)-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(3-nitratohexanoyl)-methionine methyl ester or a pharmaceutically acceptable salt thereof; N-(12-nitratolauroyl)-cysteine or a pharmaceutically acceptable salt thereof; N-(12nitratolauroyl)-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; N-(12nitratolauroyl)-S-acetyl-cysteine or a pharmaceutically acceptable salt thereof; N-(12nitratolauroyl)-S-pivaloyl-cysteine or a pharmaceutically acceptable salt thereof; compound SPM 3672 or a pharmaceutically acceptable salt thereof; or compound SPM 6373 or a pharmaceutically acceptable salt thereof.

10. (New) The method of claim 6, wherein the compound of Formula (II) is N-nitrato-pivaloyl-S-(N-acetyl-glycyl)-L-cysteine ethyl ester (compound SPM 5186) or a pharmaceutically acceptable salt thereof; N-nitrato-pivaloyl-S-(N-acetyl-alanyl)-L-cysteine ethyl ester (compound SPM 5185) or a pharmaceutically acceptable salt thereof; N-(3-nitratopivaloyl)-S-pivaloyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; compound SPM 3672 or a pharmaceutically acceptable salt thereof; or compound SPM 6373 or a pharmaceutically acceptable salt thereof.

11. (New) The method of claim 6, wherein the method is the method for treating and/or preventing a gastrointestinal disorder.

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- 12. (New) The method of claim 6, wherein the method is the method for treating and/or improving a gastrointestinal property of a COX-2 selective inhibitor
- 13. (New) The method of claim 6, wherein the method is the method for decreasing the recurrence of an ulcer.
- 14. (New) The method of claim 6, wherein the method is the method for improving a gastroprotective property of a proton pump inhibitor
- 15. (New) The method of claim 6, wherein the method is the method for improving an anti-Helicobacter pylori property of a proton pump inhibitor
- 16. (New) The method of claim 6, wherein the method is the method for improving an antacid property of a proton pump inhibitor.
- 17. (New) The method of claim 6, wherein the method is the method for improving a gastroprotective property of an H₂ receptor antagonist
- 18. (New) A method for treating and/or preventing a gastrointestinal disorder; for treating and/or improving a gastrointestinal property of a COX-2 selective inhibitor; for decreasing the recurrence of an ulcer; for improving a gastroprotective property, an anti-Helicobacter pylori property or an antacid property of a proton pump inhibitor; or for improving a gastroprotective property of an H₂ receptor antagonist in a patient in need thereof comprising administering to the patient a therapeutically effective amount of at least one compound selected from the group consisting of N-nitrato-pivaloyl-S-(N-acetyl-glycyl)-L-cysteine ethyl ester (compound SPM 5186) or a pharmaceutically acceptable salt thereof; N-nitrato-pivaloyl-S-(N-acetyl-alanyl)-L-cysteine ethyl ester (compound SPM 5185) or a pharmaceutically acceptable salt thereof; N-(3-nitratopivaloyl)-S-pivaloyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof; compound SPM 3672 or a pharmaceutically acceptable salt thereof; and compound SPM 6373 or a pharmaceutically acceptable salt thereof.
- 19. (New) The method of claim 18, further comprising administering a pharmaceutically acceptable carrier.
- 20. (New) The method of claim 18, further comprising administering an NSAID, a COX-2 inhibitor, an H₂ receptor antagonist, a proton pump inhibitor, a vasoactive agent, a

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steroid, a ß-agonist, an anticholinergic, a mast cell stabilizer, a PDE inhibitor, taxane, rapamycin, tranilast, or a combination of two or more thereof.

- 21. (New) The method of claim 18, comprising administering to the patient a therapeutically effective amount of N-nitrato-pivaloyl-S-(N-acetyl-glycyl)-L-cysteine ethyl ester (compound SPM 5186) or a pharmaceutically acceptable salt thereof.
- 22. (New) The method of claim 18, comprising administering to the patient a therapeutically effective amount of N-nitrato-pivaloyl-S-(N-acetyl-alanyl)-L-cysteine ethyl ester (compound SPM 5185) or a pharmaceutically acceptable salt thereof.
- 23. (New) The method of claim 18, comprising administering to the patient a therapeutically effective amount of N-(3-nitratopivaloyl)-S-pivaloyl-cysteine ethyl ester or a pharmaceutically acceptable salt thereof.
- 24. (New) The method of claim 18, comprising administering to the patient a therapeutically effective amount of compound SPM 3672 or a pharmaceutically acceptable salt thereof.
- 25. (New) The method of claim 18, comprising administering to the patient a therapeutically effective amount of compound SPM 6373 or a pharmaceutically acceptable salt thereof.